

### 3. Hotel Madhuban, Dehra Dun, India

#### DESIGN

When the Hotel Madhuban (42 rooms) was renovated a few years ago, windows were enlarged to allow more natural light to enter the building and old beams were dismantled, restored and reused. The additional timbers used were from authorised sustainable timber plantations. The roof of the hotel was painted with reflective paint to reduce heat gain.



#### WATER

- Grey water from the bathtubs and sinks is treated at the wastewater treatment plant located onsite. The treated water is used to water the lawns and gardens;
- Old toilet cisterns, which used 18-20 litres per flush, have been replaced with high-pressure flush cisterns that use 5-8 litres;
- Guests are given the choice of using their towels for more than one day.

These measures have collectively reduced water use by 40%. Waste water volumes have been reduced by 60%.



#### ENERGY

- A solar water heater has eliminated the use of coal-fired boilers to provide hot water;
- Hot water at the tap is limited to 45°C;
- Together with the installation of an energy-management system, low-energy light bulbs are fitted in all areas of the hotel and motion detectors installed in corridors and some back-office areas;
- Master switches that turn off all power outlets are fitted in guestrooms. Air-conditioners are equipped with individual temperature controls.

These measures collectively have lowered energy costs by 30%.



#### WASTE

- Paper waste is shredded and sold to recycling dealers;
- Food waste, kitchen trimmings and garden waste are composted and used as fertiliser;
- Old linen is converted into cleaning cloths;
- Plastic laundry bags and paper napkins have been replaced with cloth ones;
- The larger deep-fat fryer has been replaced with 4 smaller fryers of different capacities, which reduce waste fat.

Waste disposal costs were reduced by 3,100 rupees in 1997. The replacement of the large deep-fat fryer has reduced waste fat by 40%.



#### PURCHASING

- Efforts are being made to buy in bulk;
- Packaging is returned to suppliers for reuse or sold to recycling dealers.



#### MONITORING

The consumption of water, electricity, liquid petroleum gas, lubricant oils and cooking-fat is monitored weekly and comparisons are made with previous weeks and months. Allowances are made for fluctuations in occupancy and climate conditions.

**TRAINING AND MOTIVATING EMPLOYEES**

A competition for 'best environment employee' is held annually: the winner gets a cash prize and a certificate at a staff party.

**COMMUNICATION**

- Several environment awards and the 'Green Hotelier' certificate awarded by the International Hotel & Restaurant Association are displayed in the lobby;
- Guests are informed of the hotel's EMS through an environment newsletter handed out at check-in, which also invites guests to reuse towels and switch off the power meter switch when leaving the room.

**SECTION 4**

Dear Guest,

In keeping with our quest for a clean and healthy environment, we have discontinued the use of paper and plastic amenities. An effort is being made to replace the same with similar amenities derived from recyclable and environmental friendly materials.

While regretting any inconvenience that you may come across we look forward to your continued support and welcome your valuable suggestions which may prompt us to bring about improvements in the environment around us and make your stay at the Madhuban more healthy and comfortable.

Do let us know if you feel even a bit of bother, we'll surely try and do something about it.

With regards,

(Manu Kochhar)  
President.

**Hotel Madhuban**

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